

Atty. Docket No. CH919990004US1
(590.016)

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Cancelled)

2. (Cancelled)

3. (Cancelled)

4. (Cancelled)

5. (Cancelled)

6. (Cancelled)

7. (Cancelled)

8. (Currently Amended) An organic material having tris (8-quinolinato)aluminum(III) (Alq3) as a base unit and wherein said Alq3 is substituted solely in positions selected from the group consisting of the 3-, 4- and 5- positions and wherein:

said 3- or 4-position is substituted with a group consisting of an electron-donor group; and

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said 5-position is simultaneously substituted with a group consisting of an electron-acceptor or p-delocalizing group.

9. **(Original)** The material according to Claim 8, wherein said electron-donor group in said 3- or 4-position is selected from a group consisting of $-CR'R''$, NR_2 , and $-OR$, wherein R , R' , $R'' = H$ or Alkyl, and $R''' = Alkyl$.

10. **(Previously Presented)** The material according to Claim 8, wherein said electron-acceptor or p-delocalizing groups in the said 5-position are selected from a group consisting of $-CX_3$, $-CX_2$, $-CX$, $-SO_3R$, $-CR=CR_2$, $-CX=CX_2$, $-COOR$, $-SO_3R$, $-SO_3M$ and $-COOM$, whereby $X=F$, Cl , Br ; $R = H$ or Alkyl, and $M = metal\ ion$.

11. **(Original)** The material according to Claim 9, wherein said electron-acceptor or p-delocalizing groups in said 5-position are selected from a group consisting of $-CX_3$, $-CX_2$, $-CX$, $-SO_3R$, $-CR=CR_2$, $-CX=CX_2$, $-COOR$, $-SO_3R$, $-SO_3M$ and $-COOM$, whereby $X=F$, Cl , Br ; $R = H$ or Alkyl, and $M = metal\ ion$.

12. **(Original)** The material according to Claim 8, wherein said electron-donor group in the said 3- or 4-position is $-CH_3$ and said electron-acceptor group in the said 5-position is $-CF_3$.

13. **(Original)** The material according to Claim 8, wherein said electron-donor group in said 3- or 4-position is $-OR$ and said electron-acceptor group in said 5-position is $-CF=CF_2$.

14. **(Original)** The material according to Claim 8, wherein said electron-donor

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group in the said 3- or 4-position is $-\text{CH}_3$ and said electron-acceptor group in said 5-position is $-\text{CF}=\text{CF}_2$.

15. (Currently Amended) An electroluminescent device comprising:

an anode,

an organic hole injecting and transporting first layer,

an organic electron injecting and transporting second layer;

a cathode and

a luminescent third layer of tris(8-quinolinolato)aluminum(III) (Alq_3), wherein said Alq_3 is substituted ~~solely~~ in positions selected from the group consisting of the 3- or 4-position₁ and the 5-position positions wherein the 3- or 4-position is substituted with a group consisting of an electron-donor group and simultaneously substituted in said 5-position with a group consisting of an electron-acceptor or a p-delocalizing group.

16. (Original) An electroluminescent device according to Claim 15, wherein said electron-donor group in the 3-or 4-positions is selected from the group consisting of $-\text{CR}'\text{R}''\text{R}'''$, NR_2 , and $-\text{OR}$, wherein R , R' , $\text{R}''=\text{H}$ or Alkyl and $\text{R}'''=\text{Alkyl}$.

17. (Original) An electroluminescent device according to Claim 15, wherein said electron-donor or p-delocalizing groups in the 5-position are selected from the group consisting of $-\text{CX}_3$, $-\text{CX}_2$, $-\text{CX}$, $-\text{SO}_3\text{R}$, $-\text{CR}=\text{CR}_2$, $-\text{CX}=\text{CX}_2$, $-\text{COOR}$, $-\text{SO}_3\text{M}$, and $-\text{COOM}$, whereby $\text{X} = \text{F}, \text{Cl}, \text{Br}$; $\text{R} = \text{H}$ or Alkyl and $\text{M} = \text{metal ion}$.

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18. **(Original)** An electroluminescent device according to Claim 16, wherein said electron-donor or p-delocalizing groups in the 5-position are selected from the group consisting of $-CX_3$, $-CX_2$, $-CX_3$, $-SO_3R$, $-CR=CR_2$, $-CX=CX_2$, $-COOR$, $-SO_3M$, and $-COOM$, wherein $X = F, Cl, Br$; $R = H$ or Alkyl and $M =$ metal ion.

19. **(Cancelled)**

20. **(Cancelled)**

21. **(Cancelled)**

22. **(Cancelled)**